

**09-03-1001DOC****Technical Data Specification**

Product Code:	BULK01CHLORELLA	Technical Data Specification ID:	TDS-BULK01CHLORELLA	Issue:	1
Product Name:	ORGANIC CHLORELLA TABLETS (500mg)			Date:	21.02.2023

COMPANY IDENTIFICATION

COMPANY NAME NUTS IN BULK
COMPANY ADDRESS Unit B2, Canal Bank, Hume Avenue, Park West Industrial Park, Dublin 12, D12 PY02
CONTACT DETAILS **Email: quality@nutsinbulk.ie**

PRODUCT INFORMATION

BOTANICAL NAME Chlorella Vulgaris
COUNTRY OF ORIGIN China

BRIEF DESCRIPTION An organic, nutrient rich, blue-green algae, Chlorella, flourishes in subtropical and tropical waters. Cultivated Chlorella grows in filtered natural water under strict controls as the green pigment in chlorophyll. Rich in organic matters, Chlorella is a popular basis for detoxification programmes. Chlorella embodies a plethora of key vitamins and minerals including calcium, iron, phosphorous and potassium. Affluent in its nutritional value, the Chlorella cell is protected by a tough wall. This cell wall is broken by milling to make the product nutrients more bioavailable. Organic Chlorella powder is then pressed into tablets by a registered pharmaceutical. Chlorella tablets are inspected and meet the standards set by the Medicine and Healthcare products Regulatory Agency. No bulking agents such as magnesium stearate, which may impact on the taste, are used. Organic Chlorella Tablets are certified organic by the Soil Association under the code GB-ORG-05.

INGREDIENTS 100% Organic Chlorella Algae
INTENDED USE Ready to use
SUGGESTED USE 6-10 tablets per day. Please consult your doctor before taking any nutrient-dense products.

PACKAGING/ NET WEIGHT Aluminum bag + PE bag, 5kg/bag inside of a cardboard drum

SHELF LIFE & STORAGE 3 years when properly stored. Store in a cool dry area, do not freeze, and keep away from direct sunlight.

HARMONIZATION CODE 2102209000

NUTRITIONAL INFORMATION

	Per 100g	Units
Energy	1434/339	kJ/kcal
Fat	1.8	g
of which saturates	0.5	g
of which mono-unsaturates	0.5	g
of which polyunsaturates	0.7	g
Carbohydrate	12	g
of which sugars	0.6	g
Fibre	13	g
Protein	63	g
Salt	0.16	g



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Vitamin A	1437		µg
Riboflavin (B2)	0.3		mg
Vitamin B12	59		µg
Phosphorus	1100		mg
Iron	68		mg
Zinc	2.1		mg
Magnesium	394		mg
Iodine	150		µg

We periodically review our nutrition information based on a risk assessment to account for seasonal variability, growing condition and other factors that cause nutrition result to vary. Please find our updated TDS.

ORGANOLEPTIC PROPERTIES

<i>Appearance/Texture</i>	Round Tablets
<i>Flavour</i>	Mild, Like Seaweed
<i>Aroma</i>	Characteristic
<i>Colour</i>	Dark Green

PHYSICAL CHARACTERISTICS

<i>Particle Size (mm)</i>	N/A
<i>Foreign Materials</i>	Absent
<i>Solubility</i>	N/A
<i>Density</i>	N/A

CHEMICAL CHARACTERISTICS

<i>Moisture</i>	Max. 8%
<i>Ash</i>	Max. 8%
<i>Water Activity</i>	N/A

MICROBIOLOGICAL CHARACTERISTICS

Name	Maximum Limit	UoM
<i>Plate Count</i>	≤1000000	cfu/g
<i>Yeast</i>	≤10000	cfu/g
<i>Mold</i>	≤10000	cfu/g
<i>E. Coli</i>	≤100	cfu/g
<i>Salmonella</i>	Not Detected	/25g
<i>Bacillus Cereus</i>	≤10000	cfu/g
<i>Listeria</i>	Not Detected	/25g



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<i>Clostridium Perfringens</i>	≤10000	cfu/g
<i>Staphylococcus Aureus</i>	≤10000	cfu/g
<i>Enterobacteriaceae</i>	≤10000	cfu/g

PACKAGING

<i>Direct Contact Packaging</i>	Food Grade Bag
<i>Indirect Contact Packaging</i>	Cardboard Box

The packaging is in accordance with the EU Legislation:

- Council Directive on Packaging and Packaging Waste 94/62/EC and its consecutive amendments.
- Commission Regulation (EC) No 1935/2004 on Materials and Articles Intended to Come into Contact with Food and its consecutive amendments.
- Commission Regulation (EU) No 10/2011 on Plastic Materials and Articles Intended to Come into Contact with Food and its consecutive amendments.

DIETARY INFORMATION

Diet	Suitable For	Certified?	Comments
Organic	Yes	Yes	
Vegetarian	Yes	Yes	
Vegan	Yes	Yes	
Jewish / Kosher	Yes	Yes	
Muslin / Halal	Yes	No	Suitable but not certified

AUTHORISED HEALTH BENEFITS BASED ON MICRONUTRIENTS

Micronutrients in this product contribute to:

- | | |
|---|---|
| <ul style="list-style-type: none"> ✓ normal iron metabolism ✓ maintenance of normal mucous membranes ✓ maintenance of normal skin ✓ maintenance of normal vision ✓ normal function of the immune system ✓ process of cell specialisation ✓ normal energy-yielding metabolism ✓ normal functioning of the nervous system ✓ maintenance of normal red blood cells ✓ normal metabolism of iron ✓ protection of cells from oxidative stress ✓ reduction of tiredness and fatigue ✓ normal homocysteine metabolism ✓ normal psychological function ✓ normal red blood cell formation ✓ process of cell division ✓ normal function of cell membranes | <ul style="list-style-type: none"> ✓ maintenance of normal bones ✓ maintenance of normal teeth ✓ normal growth and development of bone in children ✓ normal cognitive function ✓ normal formation of red blood cells and haemoglobin ✓ normal oxygen transport in the body ✓ normal cognitive development of children ✓ normal DNA synthesis ✓ normal acid-base metabolism ✓ normal carbohydrate metabolism ✓ normal fertility and reproduction ✓ normal macronutrient metabolism ✓ normal metabolism of fatty acids ✓ normal metabolism of vitamin A ✓ normal protein synthesis ✓ normal formation of connective tissue ✓ protection of cells from oxidative stress |
|---|---|

These approved health benefits are based on the detailed nutritional composition of the product we supply and in compliance with regulation (EC) No 1924/2006. These health benefits may not be applicable to similar products from other suppliers. We recommend that any claims made for a product are verified by lab analysis. For a vitamin claim, this should take place at the end of shelf-life.



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Allergens: -When purchased in bulk size original packaging, manufacturer allergen policy will apply.
 When purchased in quantities that need re-packaging, our allergen policies will apply.

Component	Manufacturer			Nuts in Bulk (Applies when bought in small quantities that need re-packaging)		
	In Product	Processed in Same Equipment	Handled on Site	In Product	Processed in Same Equipment	Handled on Site
Cereals containing GLUTEN and products thereof	NO	NO	NO	NO	NO	YES
EGGS or its derivatives	NO	NO	NO	NO	NO	NO
FISH or its derivatives	NO	NO	NO	NO	NO	NO
CRUSTACEANS / SHELLFISH	NO	NO	NO	NO	NO	NO
MOLLUSCS	NO	NO	NO	NO	NO	NO
PEANUTS or derivatives	NO	NO	NO	NO	NO	YES
SOYA BEANS or derivatives	NO	NO	NO	NO	NO	YES
MILK (LACTOSE) or its derivatives	NO	NO	NO	NO	NO	YES
NUTS , tree nuts:	NO	NO	NO	NO	NO	YES
CELERY, including celeriac and its derivatives	NO	NO	NO	NO	NO	NO
MUSTARD, referring to all parts of the plant and derivatives thereof	NO	NO	NO	NO	NO	YES
SESAME SEEDS or derivatives	NO	NO	NO	NO	NO	YES
SULPHITES >10ppm – Sulphite quantity to be given in ppm	NO	NO	NO	NO	NO	YES
LUPIN seeds or derivatives	NO	NO	NO	NO	NO	NO

CONTAMINANTS

Heavy Metals (lead, cadmium, mercury, tin, arsenic)
Mycotoxins (aflatoxins, ochratoxin A, patulin)
Nitrates
Polycyclic Aromatic Hydrocarbons (PAH)

According to Regulation (EC) No 1881/2006 and 629/2008.
 According to Regulation (EC) No 1881/2006.
 According to Regulation (EC) No 1881/2006.
 According to Regulation (EU) No 2015/1933

GMO FREE

This product is not subject to genetic modifications. Process controls are in place to ensure no accidental contamination with genetically modified materials, or materials derived thereafter, can occur. We hereby certify that this product is not subject to labeling under EU Regulations 1829/2003/EC and 1830/2003/EC on genetically modified food and feed.

PESTICIDES

This product complies with the requirements outlined in Regulation (EU) 2018/848 of the European Parliament and of The Council (and consecutive amendments). It also complies with Soil Association strict organic farming standards. During the



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manufacturing process the product and the packaging materials are not exposed to pesticides or pesticide residues. Pesticides are not stored on site, nor used in the manufacturing or warehousing areas.

IRRADIATION AND ETHYLENE OXIDE

We declare that the product listed above is not treated with ionizing radiation (r2) or ethylene oxide (EtO) for any purposes and as such are free of gamma ray and ethylene oxide residue and complies with the EU regulation 1999/3/EC

BSE STATEMENT

This product is manufactured exclusively from plant source, and does not contain any components from animal origin. It has not been derived from any animal source, and has not come into contact with any components of animal origin.

RESIDUAL SOLVENTS

No residual solvents are used in the manufacturing process.

LEVEL OF UNDESIRABLE SUBSTANCES

The strictly controlled production process of this product ensures that the undesirable substances levels (heavy metals, PAH, mycotoxins, etc.) are below the limits identified by EU legislation (Commission regulation No 2073/2005, No 1881/2006 and consecutive amendments), including the recommendations provided by EFSA on food contaminants.

ANIMAL TESTING STATEMENT

NUTSINBULK confirms that we do not conduct or commission animal testing of any products.

The information contained herein is based on the present state of our knowledge and is intended to describe our product from the point of safety requirements. Therefore, it should not be construed as guaranteed specific properties of the product described. Our product specification may be subject to change without notice.

This is an agricultural product; therefore, some batch variation may occur in terms of colour, flavour, odour, appearance and composition based on the growing conditions and seasonal variability.

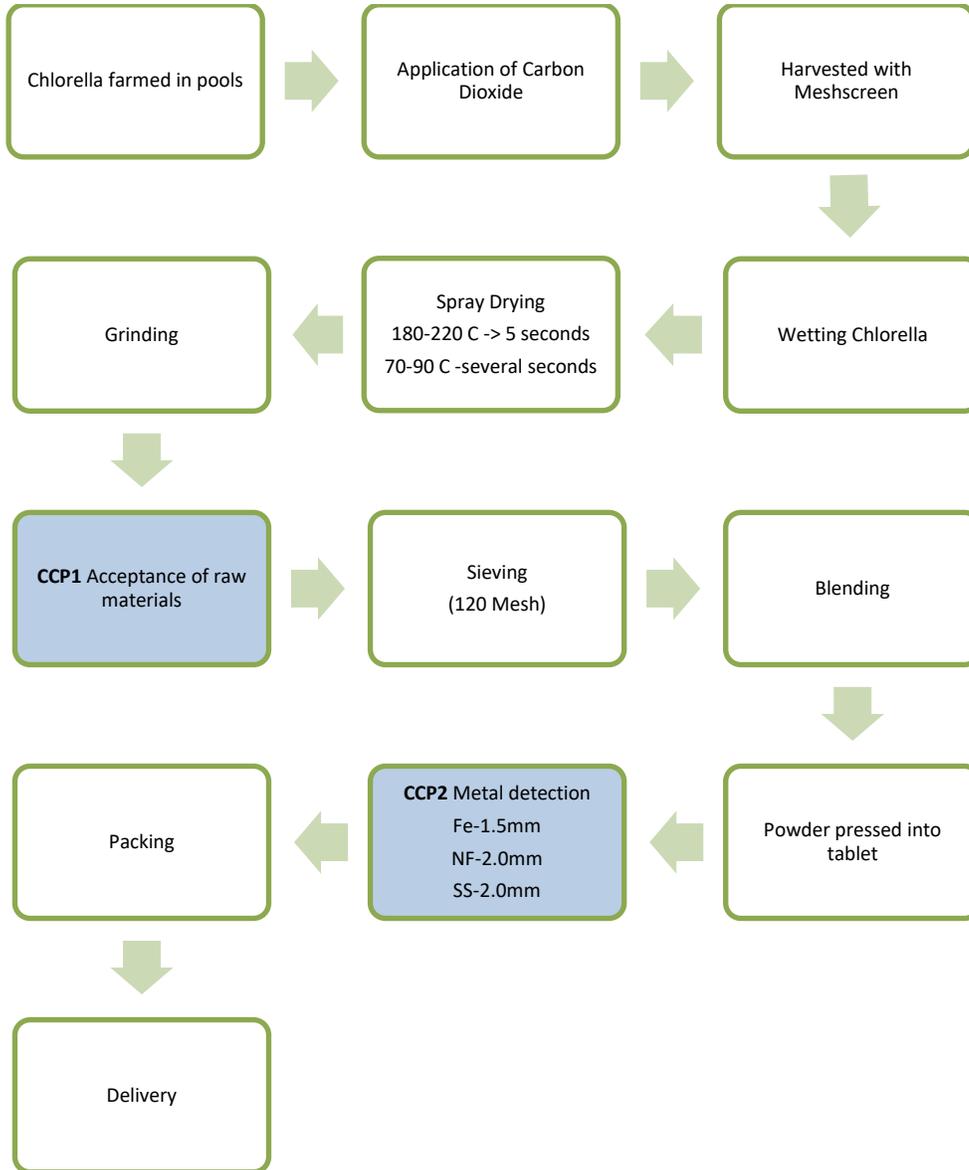
The nutritional information provided in this document is based on nutritional testing and on average, as required by regulation (EC) No 1169/2011. The information is not meant to ensure warranty of characteristics. It comes without commitment and is not valid for any claim of warranty and product liability respectively.



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PROCESS FLOW





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MATERIAL SAFETY DATA SHEET

HAZARD IDENTIFICATION

Not classed as hazardous

FIRST AID MEASURES

SKIN

Wash with plenty of water.

INGESTION

Seek medical attention if required.

INHALATION

Remove exposure. Seek medical attention if required.

EYES

Wash out with plenty of water / eye solution. Seek medical attention if irritation persists

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Use appropriate media relating to other components of fire- can use: water spray, foam, dry chemical or carbon dioxide.

SPECIAL HAZARDS OF PRODUCT

Not Flammable

PROTECTIVE EQUIPMENT FOR FIREFIGHTING

Wear full protective clothing and self-contained breathing apparatus.

ACCIDENTAL RELEASE MEASURES

SPILLAGES

Treat as any other food material

PERSONAL PRECAUTIONS

No special procedures identified

ENVIRONMENTAL PRECAUTIONS

Minimize contamination of drains, surface and ground waters.

HANDLING AND STORAGE

HANDLING

Handle under good hygiene procedures as with any food material.

STORAGE

Store away from air, heat and light exposure. Store in original container in cool area, under cover.



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EXPOSURE CONTROL / PERSONAL PROTECTION

BODY PROTECTION	Normal work wear
SKIN PROTECTION	Gloves
EYE PROTECTION	Chemical goggles
RESPIRATORY PROTECTION	As it is powder form- respiratory protection may be required

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Powder
SOLUBILITY IN WATER	Partially Soluble
AUTO-FLAMMABILITY	No

STABILITY AND REACTIVITY

STABILITY	Stable under normal conditions. Avoid exposure to air, light and humidity.
CONDITIONS TO AVOID	Strong light, wetness, heat etc.

TOXICOLOGY INFORMATION

Not applicable

ECOLOGICAL INFORMATION

This product is ultimately biodegradable.

DISPOSAL CONSIDERATIONS

Dispose of according to relevant local / national guidelines.

TRANSPORT INFORMATION

Non hazardous for air, sea and road freight.

REGULATORY INFORMATION

No data

ADDITIONAL INFORMATION



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This Product is 100% Natural and Organic; it is not considered hazardous.

The information in this document is believed to be true and accurate at the time of creation, however all statements contained in this document are made without warranty. The entirety of the potential methods of use is not within our control and therefore no responsibility or liability will be assumed for use of this product.

Version No:	Review Date:	Reason for the change	Changed by:	Authorized by:
1	21.02.2023	Merging previous specifications documents: <ul style="list-style-type: none"> - Material Safety Data Sheet GO517, Issue 1, Issued 07/12/2018 - Product Flow Chart GO348, Issue 1.2, Issued 21/24/01/2019 - Technical Data Sheet, GO127, Issue 2.4, Issued 20/06/2022) into one document. No food safety data changes involved.	E. Frydrych	T. Kufa

